

DIALOG(R)File 352:Derwent WPI

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014517921 **Image available**

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Liquid crystal display device in electronic device e.g. television, has multiple pixels having storage circuits

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Number of Countries: 005 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020024485	A1	20020228	US 2001916306	A	20010730	200237 B
CN 1337669	A	20020227	CN 2001124995	A	20010808	200237
JP 2002149138	A	20020524	JP 2001235487	A	20010802	200250
KR 2002013727	A	20020221	KR 200147409	A	20010807	200257
TW 518533	A	20030121	TW 2001119163	A	20010806	200356

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Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020024485	A1	38	G09G-003/36	
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JP 2002149138	A	35	G09G-003/36	
KR 2002013727	A		G09G-003/36	
TW 518533	A		G09G-003/20	

Abstract (Basic): US 20020024485 A1

NOVELTY - Each of the pixels respectively have storage circuit (A1-A3 and B1-B3) such as SRAM, DRAM, FeRAM, etc.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for

liquid crystal display device driving method.

USE - For electronic devices such as CD and DVD players,

television, personal computer, video camera, head mount display, portable information terminal such as electronic book, mobile computer, cell phone, etc.

ADVANTAGE - Electric power consumption during display of still picture is greatly reduced by providing pixels with storage circuits.

DESCRIPTION OF DRAWING(S) - The figure shows the circuit diagram of pixel with multiple storage circuits.

Storage circuits (A1-A3,B1-B3)

pp; 38 DwgNo 1/20

Title Terms: LIQUID; CRYSTAL; DISPLAY; DEVICE; ELECTRONIC; DEVICE; TELEVISION; MULTIPLE; PIXEL; STORAGE; CIRCUIT

Derwent Class: P85; T01; T04; U14; W01; W03; W04

International Patent Class (Main): G09G-003/20; G09G-003/36

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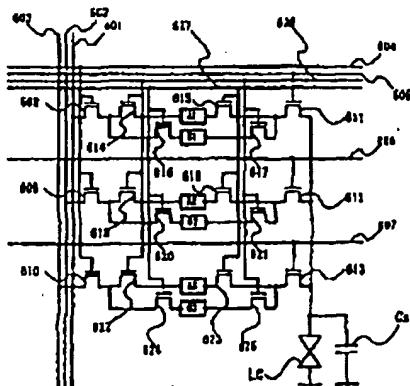
代理人 吴增勇 张志醒

[54]发明名称 液晶显示装置及其驱动方法

[57] 摘要

本发明的目的之一是提供带有具有新电路结构的驱动电路和像素、能够有低功耗的液晶显示装置。在使用 n 位数字图像信号 (n 为整数) 显示图像的液晶显示装置中, 通过在每个像素中装入 $n \times m$ 个存储电路 (m 为整数), 它包括在像素中存储 m 帧数字图像信号的功能 (在实例的所示附图中, $n = 3, m = 2, 3$ 位 $\times 2$ 帧被存储在存储电路 A1 至 A3 和 B1 至 B3 内)。因此, 在显示静止图像时, 通过重复读取暂时存储在存储电路中的数字图像信号并且在每帧中显示, 可以停止源信号线驱动电路在这段时间内的驱动, 以减小液晶显示装置的功耗。

权利要求书 8 页 说明书 34 页 附图页数 20 页



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